

Fig. 1

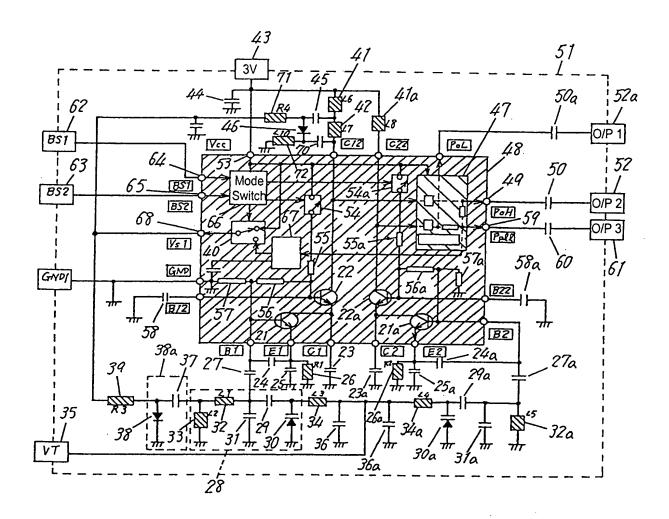




Fig. 2

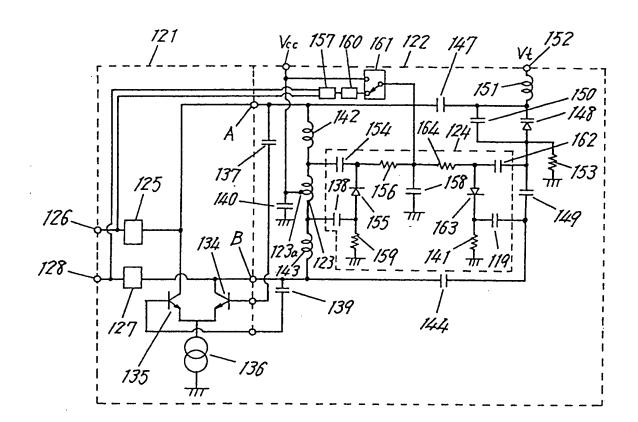




Fig. 3

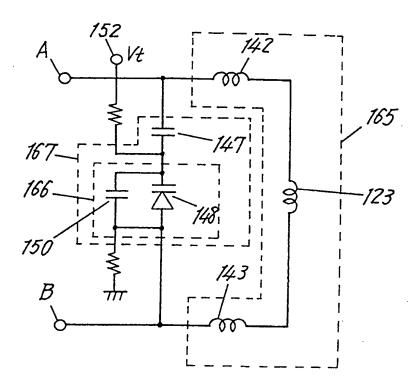


Fig. 4

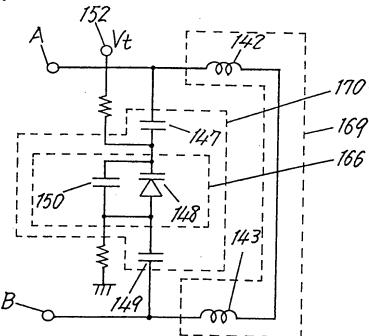




Fig. 5

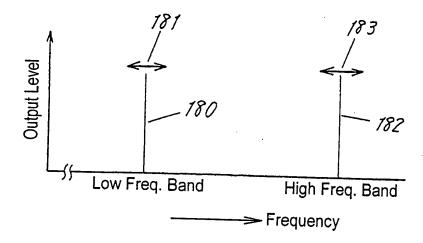




Fig. 6

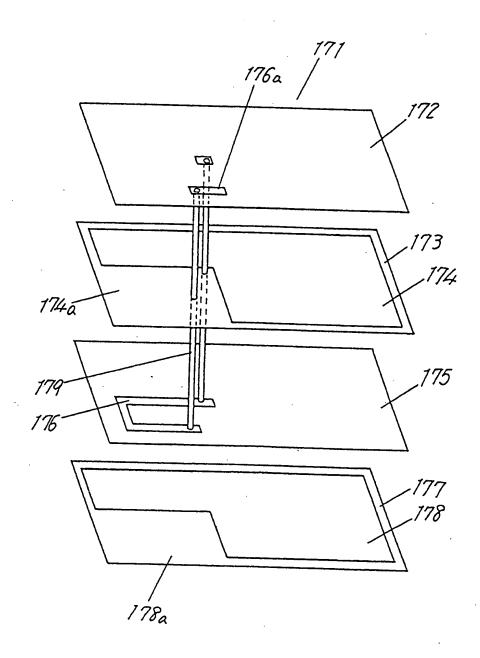
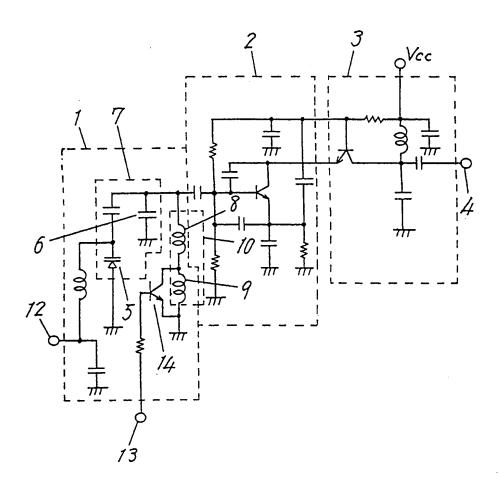




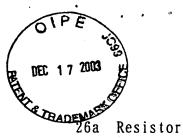
Fig. 7 Prior Art





## Reference Numerals

- 1 Resonant Circuit
- 2 Oscillator Circuit
- 3 Buffer
- 4 Output Port
- 5 Variable-Capacitance Diode
- 6 Capacitor
- 7 Parallel Assembly
- 8 Inductor
- 9 Inductor
- 10 Series Assembly
- 12 Control Port
- 13 Band Switching Port
- 14 Electronic Switch
- 21 Oscillating Transistor
- 21a Transistor
- 22 Buffer Transistor
- 22a Transistor
- 23 Capacitor
- 23a Capacitor
- 24 Capacitor
- 24a Capacitor
- 25 Capacitor
- 25a Capacitor
- 26 Resistor



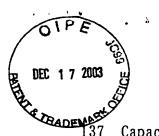
- Tod Kobibioi
- 27 Coupling Capacitor
- 27a Capacitor
- 28 Resonant Circuit
- 29 Capacitor
- 29a Capacitor
- 30 Variable-Capacitance Diode
- 30a Variable-Capacitance Diode
- 31 Capacitor
- 31a Capacitor
- 32 Inductor
- 32a Inductor
- 33 Inductor
- 34 Inductor
- 34a Inductor
- 35 Control Port
- 36 Bypass Capacitor
- 36a Capacitor
- 37 Capacitor
- 38 Diode
- 38a Switching Means
- 39 Inductor
- 40 Switching Means
- 41 Inductor
- 41a Inductor

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- 42 Inductor
- 43 Positive Power Source
- 44 Bypass Capacitor
- 45 Capacitor
- 46 Diode
- 47 Output Circuit
- 48 Package
- 49 Port
- 50 Capacitor
- 50a Capacitor
- 51 Multi-Band Voltage-Controlled Oscillator
- 52 Output Port
- 52a Output Port
- 53 Port
- 54 Switch
- 54a Switch
- 55 Resistor
- 55a Resistor
- 56 Resistor
- 56a Inductor
- 57 Resistor
- 57a Inductor
- 58 Capacitor
- 58a Capacitor
- 59 Port



- 60 Capacitor
- 61 Port
- 62 Port
- 63 Port
- 64 Port
- 65 Port
- 66 Mode Switching Circuit
- 67 Negative Source Generator
- 68 Port
- 70 Capacitor
- 71 Inductor
- 72 Inductor
- 119 Capacitor
- 121 Balanced Amplifier
- 122 Resonant Circuit
- 123 Inductor
- 123a Intermediate Point
- 124 Switching Means
- 125 Buffer
- 126 Output Port
- 127 Buffer
- 128 Output Port
- 134 Transistor
- 135 Transistor
- 136 Constant Current Source



- 7 Capacitor
- 138 Capacitor
- 139 Capacitor
- 140 Capacitor
- 141 Resistor
- 142 Inductor
- 143 Inductor
- 144 Capacitor
- 147 Capacitor
- 148 Variable-Capacitance Diode
- 149 Capacitor
- 150 Capacitor
- 151 Inductor
- 152 Control Port
- 153 Resistor
- 154 Capacitor
- 155 Diode
- 156 Resistor
- 157 Balanced/Unbalanced Converter
- 158 Capacitor
- 159 Resistor
- 160 Negative Source Generator
- 161 Switching Means
- 162 Capacitor
- 163 Diode



- 164 Resistor
- 165 Series Assembly
- 166 Parallel Assembly
- 167 Series Assembly
- 169 Series Assembly
- 170 Series Assembly
- 171 Multi-Layer Substrate
- 172 First Layer
- 173 Second Layer
- 174 Grounding Pattern
- 174a Pattern-Unformed Portion
- 175 Third Layer
- 176 Inductor
- 176a Inductor
- 177 Part of Inductor
- 178 Fourth Layer
- 179 Grounding Pattern
- 180 About 900MHz
- 181 Frequency Varied Range
- 182 About 1800MHz
- 183 Frequency Varied Range
- A Port
- B Port

Vcc Power Source